

INCH-POUND

MIL-PRF-24236/25C

3 September 1999

SUPERSEDING

MIL-S-24236/25B

4 August 1992

## PERFORMANCE SPECIFICATION SHEET

SWITCHES, THERMOSTATIC, (BIMETALLIC),  
TYPE I, HERMETICALLY SEALED,  
SINGLE POLE, SINGLE THROW (SPST), 2 AMPERES

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall  
consist of this specification sheet and the issue of the following  
specification listed in that issue of the Department of Defense  
Index of Specifications and Standards (DoDISS) specified in the  
solicitation: MIL-PRF-24236

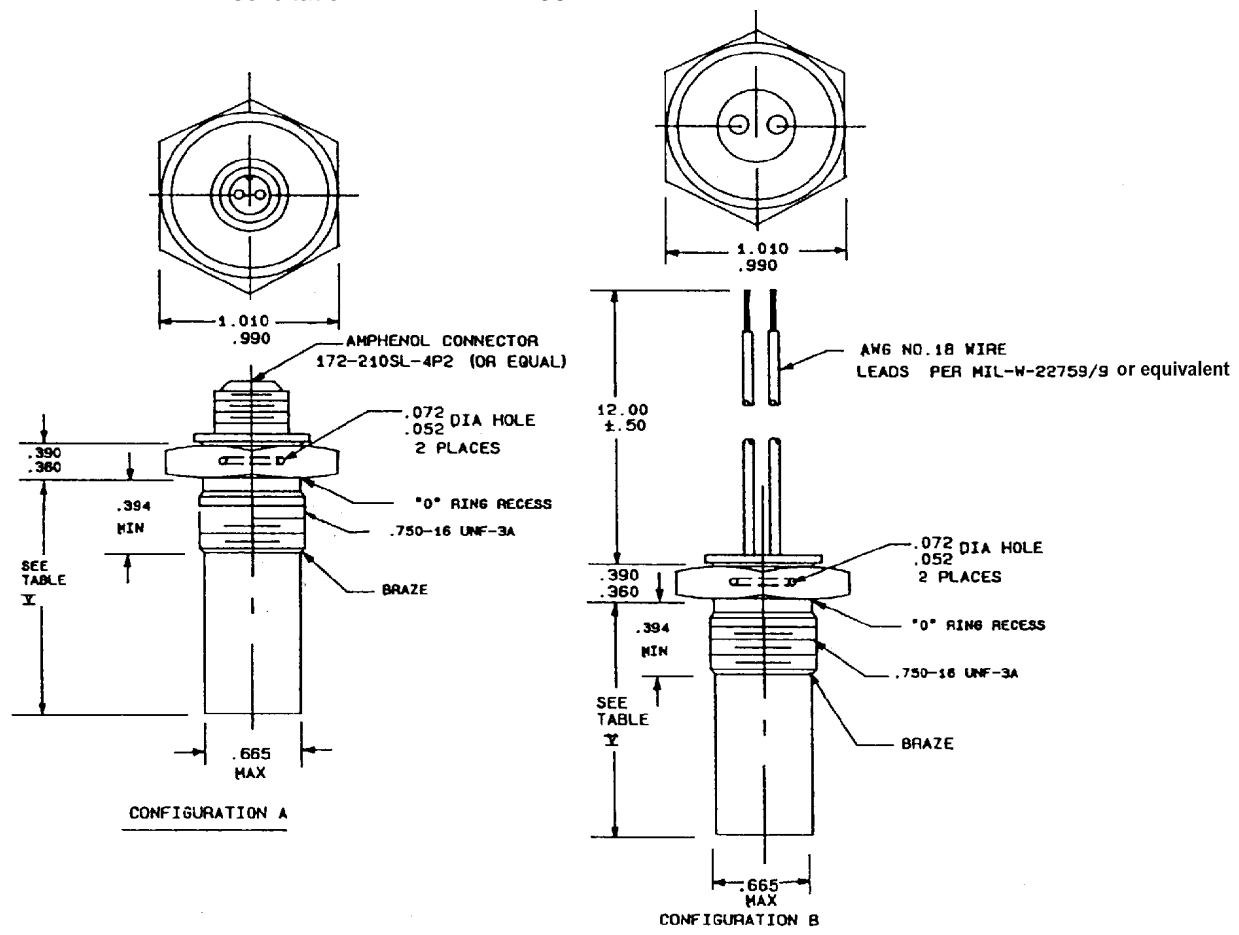
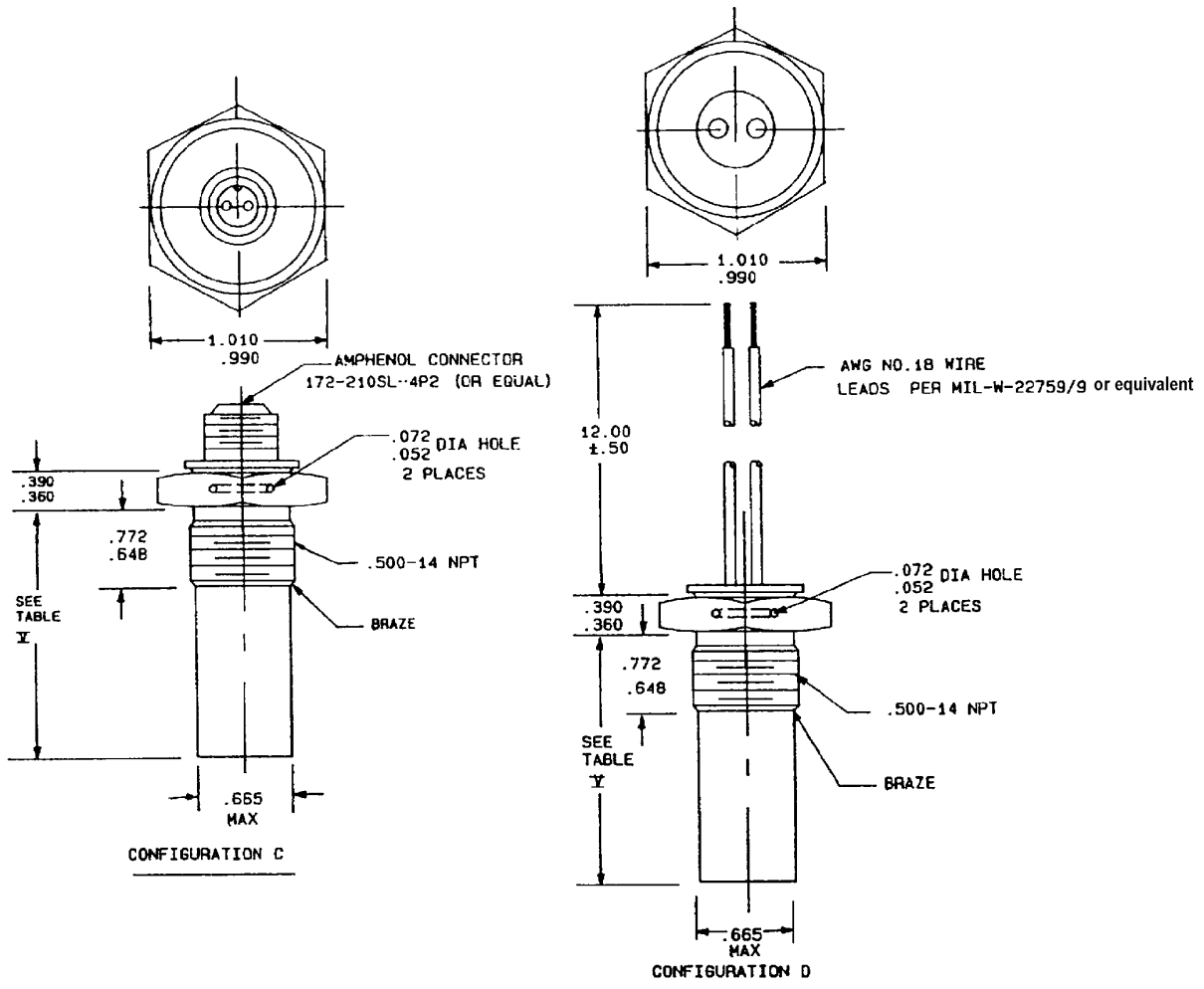


FIGURE 1. Switches.

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Inches	mm	Inches	mm
.052	1.32	.648	16.46
.072	1.83	.665	16.89
.360	9.14	.772	19.61
.390	9.91	.990	25.15
.394	10.01	1.010	25.65
.50	12.7	12.00	304.8

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.

FIGURE 1. Switches - Continued.

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## REQUIREMENTS:

Dimensions and configuration: See figure 1 and table 1.

Operating temperature range: -10°F to +400°F.

Class: Class 4, except vibration 10 - 2,000 Hz, 10 g's.

Mounting: See figure 1.

Weight: Approximately .22 pound.

Dielectric withstanding voltage: 70,000 ft - 350 V ac.

Operating temperature and tolerance: See tables II, III, and IV.

Electrical ratings: See table VI.

Endurance: See table VI.

## QUALIFICATION:

Group submission: See table VII.

Part number: Consists of the prefix "M24236/25-" and a five letter code.

### EXAMPLE:

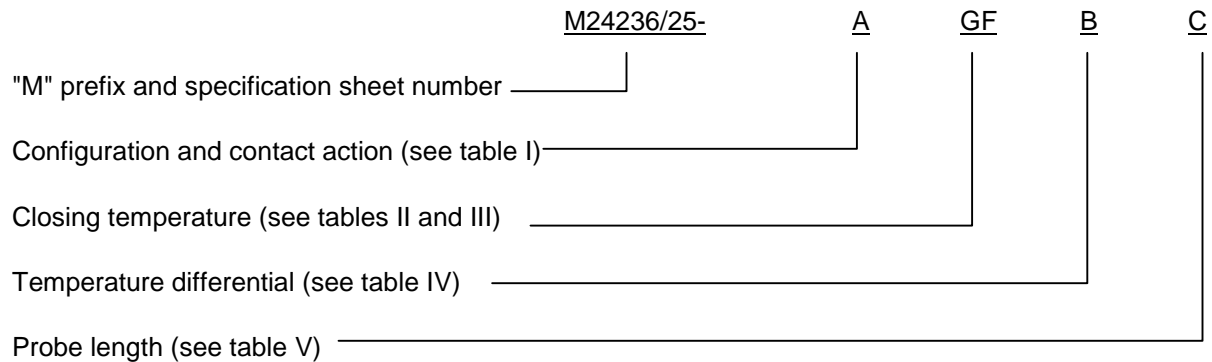


TABLE I. Configuration and contact action.

	Configuration				Contact Action
	A	B	C	D	
Code	A	C	E	G	Close on increasing temperature (open decreasing on temperature)
Code	B	D	F	H	Close on decreasing temperature (open on increasing temperature)

NOTE: The manufacturer calibrates these switches by setting the closing temperature. The opening temperature will then depend on the differential selected (see table IV).

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TABLE II. High temperature setting to the nearest 25°F.

Temperature (°F)	Code	Temperature (°F)	Code
0	A	225	K
25	B	250	L
50	C	275	M
75	D	300	N
100	E	325	P
125	F	350	Q
150	G	375	R
175	H	400	S
200	J		

TABLE III. Temperature setting to the nearest 5°F.

Unit	Tolerance		
	<u>1/</u> ±3°F	±4°F	±5°F
-10	A	F	L
-5	B	G	M
0	C	H	N
+5	D	J	P
+10	E	K	Q

1/ Available to 250°F only.

TABLE IV. Temperature differential.

Closing temperature range	Code	Available differential
+10°F to 250°F	A	2-4°F
	B	2-5°F
-251°F to 400°F	C	3-7°F

TABLE V. Probe length.

Code	Length ±.030	Code	Length ±.030
A	1.5	F	4.0
B	2.0	G	4.5
C	2.5	H	5.0
D	3.0	J	5.5
E	3.5	K	6.0

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TABLE VI. Electrical submission.

Load	28 V dc (amperes)	115 V ac, 60 Hz (amperes)	Life cycle
Resistive	2.0	2.0	250,000
Inductive	1.0	1.5	250,000
Lamp	1.0	0.5	250,000

TABLE VII. Group submission.

Configuration	Number of samples required	Tests	Extent of approval
A B	3 each	Visual and mechanical examination, torque, vibration, shock, and seal	All <u>1/</u>
C D	2 each	Torque	

1/ Qualification is based on prior approval of MIL-PRF-24236/20.

Custodians:

Army - CR  
Navy - EC  
Air Force – 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5930-1695)

Review activities:

Army – AR, AT, AV, MI  
Navy – MC, SH  
Air Force - 99